<u>Listing of Claims</u>:

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- 1. (Currently Amended) A chemical reactor comprising:
- a pair of substrates joined to each other;
- a micro flow path provided between the pair of substrates; and

an injection section which injects and supplies a material into the micro flow path by an inkjet head, wherein the material includes a liquid oxidizing agent to cause a chemical reaction one of: (i) an oxidation reaction which oxidizes carbon monoxide in a fuel including hydrogen in the micro flow path, and (ii) a combustion reaction which combusts a combustion fuel with the liquid oxidizing agent into the flow path.

- 2. (Original) The chemical reactor according to claim 1, wherein the injection section is supplied with the material from a material storage container provided outside the pair of substrates.
- 3. (Currently Amended) The chemical reactor according to claim 1, wherein the material includes an the liquid oxidizing agent produces, and oxygen is produced from the injected oxidizing agent in the micro flow path.

- 4. (Currently Amended) The chemical reactor according to claim 3, wherein oxygen produced from the <u>liquid</u> oxidizing agent and carbon monoxide contained in a differently supplied fluid react in the <u>micro</u> flow path to produce carbon dioxide.
- 5. (Currently Amended) The chemical reactor according to claim 1, wherein the material includes an the liquid oxidizing agent, and is mixed with a the combustion fuel in the micro flow path to combust the combustion fuel, thereby generating heat energy.
- 6. (Currently Amended) The chemical reactor according to claim 1, wherein the material includes an oxidizing agent and a the combustion fuel, and wherein the combustion fuel is combusted by the <u>liquid</u> oxidizing agent in the <u>micro</u> flow path to generate heat energy.

Claim 7 (Canceled).

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8. (Currently Amended) The chemical reactor according to claim 1 [[7]], wherein the material includes one of hydrogen peroxide, a or its solution of hydrogen peroxide, and or a dinitrogen monoxide solution.

Claim 9 (Canceled).

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- 10. (Currently Amended) The chemical reactor according to claim 1, wherein the <u>inkjet head injection section</u> includes an injection mechanism which injects the liquid material in <u>via</u> a nozzle in a particle form by pressure due to air bubbles that are produced in the nozzle by film boiling through heating the material in the nozzle.
- 11. (Currently Amended) The chemical reactor according to claim 1, further comprising a heat source for heating the micro flow path.
- 12. (Original) The chemical reactor according to claim 11, wherein the heat source has a thin film heater.
- 13. (Currently Amended) The chemical reactor according to claim 11, wherein the heat source has a thermal fluid to be supplied in a flow path provided in a surface of one of the pair of substrates which is opposite to a surface facing the other one of the pair of substrates substrate.

- 14. (Original) The chemical reactor according to claim 11, wherein the heat source has a combustion reaction furnace which achieves heating by combusting the combustion fuel.
- 15. (Currently Amended) The chemical reactor according to claim 14, further comprising an wherein the injection section which injects and supplies the combustion fuel.
- 16. (Currently Amended) A chemical <u>reactor</u> comprising:

 a micro reactor which causes an oxidative reaction one of:

 (i) an oxidation reaction which oxidizes carbon monoxide with a liquid oxidizing agent in a furnace, wherein the carbon monoxide is in a fuel including hydrogen, and (ii) a combustion reaction which combusts a combustion fuel with the liquid oxidizing agent in a the furnace; and

an oxidizing agent supply section which supplies $\frac{1}{2}$ the $\frac{1}{2}$ liquid oxidizing agent into the furnace $\frac{1}{2}$ an $\frac{1}{2}$ inkjet head.

Claim 17 (Canceled).

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18. (Currently Amended) The chemical reactor according to claim 16, wherein the oxidizing agent includes <u>one of</u> hydrogen peroxide, <u>a or its</u> solution <u>of hydrogen peroxide</u>, <u>and or a dinitrogen monoxide</u> solution.